CHAPTER 1: SPECIFICATION

CONTENTS

1. Specifications 1

SC3000 Hardware Specifications 1

SC3000 Interface Specifications 1

2. Comparison Chart 4

3. Applicable Risograph model..... 5

1. Specifications

SC3000 Hardware Specifications

Item	
Interface Unit Type	External box
Dimensions (W x D x H)	200 x 233 x 80(mm) [Horizontaly set] 7.87 x 9.17 x 3.15(inch) [Horizontaly set]
Power Requirements	100 to 240VAC, 50/60Hz
Power Consumption	10W
Operation Temperature	41°F to 104°F(5°C to 40°C)
Operation Humidity	40% to 70%(No dew condensation)
Weight	Approx. 4.4lb (2.0kg)
Resolution	Input: 400 dpi/ Output: 400dpi
Input Interface	IEEE 1284 Compatible Mac SERIAL
Control Button	START, STOP and FUNCTION (3 buttons)
Indicator(LED)	READY/DATA, PAGE STANDBY and ERROR (3 LEDs)
Rear Panel Connectors	Host (PARALELL), Host (SERIAL), Printer (RISOGRAPH)
Margin Assignment	Top/bottom and left/right : 3mm(0.118 inch) or greater [Depends on Model of Risograph]
Paper Size Range	Max. 297 x 432mm or 11.693 x 17.008 inch Min. 10 x 10mm or 0.394 x 0.394 inch (The paper sizes which are available for printing vary with the model of Risograph.)

SC3000 Interface Specifications

A. Host (SERIAL) connector

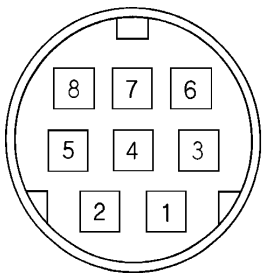
- CN3 : MAC (SERIAL)

Mac printer cable system : 57.6K bps
LocalTalk cable system : 230.4K bps

- Input/output specifications

Input : RS-422 receiver or equivalent
Output : RS-422 driver or equivalent

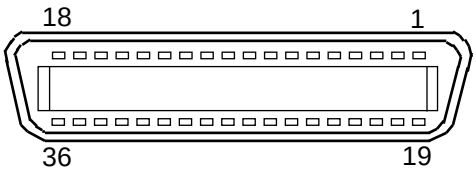
- Pin configuration



NOTE : Timing and other details are not published.

B. Host (PARALLEL) connector

- Pin configuration



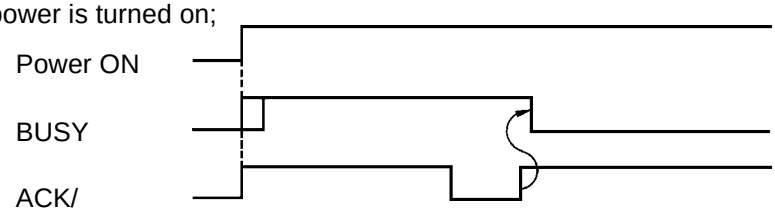
- Interface signals(Centronics interface specifications)

Pin No.	Signal	Source	Function
1	DATASTROBE/	H	Data read synchronizing signal. When this signal is LOW, the SC3000 takes in data.
2	DATA1	Bi-Di	Represents data bit 1.
3	DATA2	Bi-Di	Represents data bit 2.
4	DATA3	Bi-Di	Represents data bit 3.
5	DATA4	Bi-Di	Represents data bit 4.
6	DATA5	Bi-Di	Represents data bit 5.
7	DATA6	Bi-Di	Represents data bit 6.
8	DATA7	Bi-Di	Represents data bit 7.
9	DATA8	Bi-Di	Represents data bit 8.
10	ACK/	P	Indicates that all data have been acknowledged when LOW.
11	BUSY	P	Indicates that the SC3000 is busy and cannot receive data when HIGH.
12	PE	P	Indicates the absence of paper in the printer when HIGH.
13	SELECT	P	Indicates whether the SC3000 is selected or not.
14	AF	H	Reserved for future expansion.
15	NC*		Underfined or reserved for future expansion.
16	GND		Signal ground
17	FG		Frame ground
18	5V	P	+5V power supplied from the SC3000 through a 4.2kΩ resistor.
19	GND		nStrobe signal ground
20	GND		Data 1 signal ground
21	GND		Data 2 signal ground
22	GND		Data 3 signal ground
23	GND		Data 4 signal ground
24	GND		Data 5 signal ground
25	GND		Data 6 signal ground
26	GND		Data 7 signal ground
27	GND		Data 8 signal ground
28	GND		nAck signal ground
29	GND		Busy signal ground
30	GND		pError signal ground
31	INPUT PRIME/	H	Restores the SC3000 into the initial status (compatibility mode) when HIGH.
32	FAULT/	P	Notifies the presence or absence of an error in the SC3000 to the external device(host).
33	NC*		Underfined or reserved for future expansion.
34	NC*		Underfined or reserved for future expansion.
35	NC*		Underfined or reserved for future expansion.
36	SELECT IN/	H	Used by the external device (host) to select the SC3000. When this signal is LOW, the SC3000 is selected.

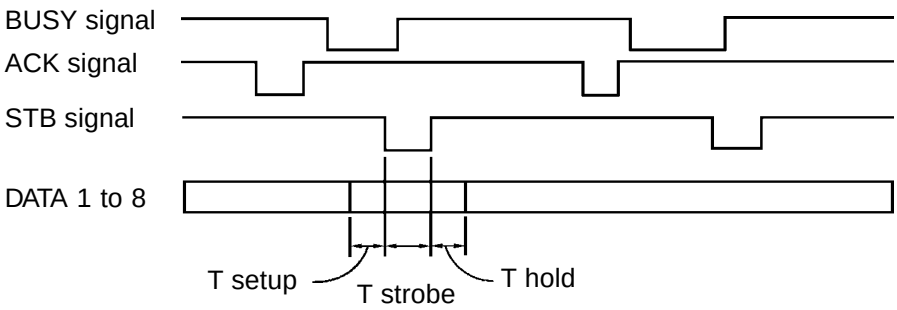
NC* stands for no connection
H stands for Host and P means the SC3000

-Timing Charts

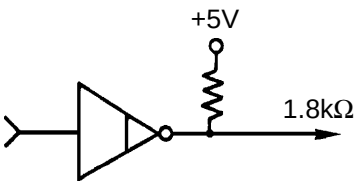
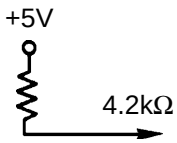
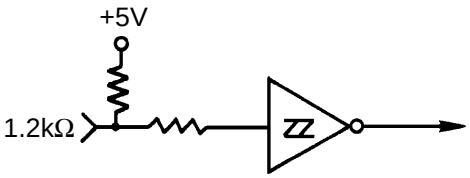
When the power is turned on;



When data is received;

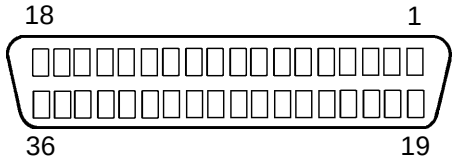


- Electrical Characteristics

Signal	Circuit	Remarks
nAck **Busy** **pError** **Select** **nFault**		-Open collector LS06 or equivalent -IEEE 1284 level 1 or equivalent
Peripheral Logic Hight		Connected to the +5V source within the SC3000 through a 4.2kΩ resistor
nStrobe **Data 1 to 8** **nInt** **nAutoFd** **nSelection**		-Schmidt buffer LS14 or equivalent -IEEE 1284 level 1 or equivalent(input capacity varies)

C. Printer(RISOGRAPH)connector

- Pin configuration



NOTE : This interface is dedicated to the RISOGRAPH printer.

2. Comparison Chart

SPECIFICATION		SC3000	CI-300
Compatibility	PC	Standard	Standard
	Macintosh	Standard	Standard
Microprocessor/speed		AMD29205	i960KB/25
Memory:	Standard RAM	4MB	5MB
	Maximum RAM	20MB	8MB
	Hard Disk Drive	No	No
I/O ports:	Standard	IEEE1284 Parallel LocalTalk RS422	PC Parallel LocalTalk RS232/RS422
	Option	(PCMCIA)	SCSI
Port Autoswitching		Yes	No
Languages:	PostScript	No	Clone PS1
	PCL	No	PCL 5
	Other	RisoRinc	No
Language Autoswitching		No	No
Resource Saving		No	No
Emulation Printers:		No	H-P LJ III LaserWriter
Resident fonts:			
	PostScript Latin	No	35(Agfa)
	PCL Latin scalable	No	35(Agfa)
	PCL Latin Bitmap	No	7(Bitstream)
	PostScript Kanji	No	No
Functions		Print	Print & Scan
Interactive manual duplex		No	No
Adobe Brilliant Screens		No	No
Computer set copy count		Standard	Standard
Computer set printer's function		(Standard)	No
Printer Resolution	300dpi	Standard	No
	400dpi	Standard	Standard
Software:	Screen Fonts	No	No
	Print Drivers	Windows & Mac	No
	Scan Drivers	No	Windows & Mac*
	Others	Paper Editor	Utility(Dos & Win)

* Scanning requires optional SCSI Interface Board Above specifications may change without notice

3. Applicable Risograph Model

SC3000 can be connect with the Risograph listed below.

Risograph		Risograph Rom version		Other condition
		Panel ROM newer than	System ROM newer than	
RG2500	Not connectable			
RG2700	Not connectable			
RG3500	Not connectable			
RC4000	Not connectable			
RC4500	Not connectable			
RC5600	Not connectable			
RC5600D	Not connectable			
RC5800	Not connectable			
RC6300	Not connectable			
RA4050	Connectable		RA49/V2.00	Option PCB type A must be installed
RA4200	Connectable		RA49/V2.00	Option PCB type A must be installed
RA4300	Connectable		RA59/V1.03	Option PCB type A must be installed
RA4900	Connectable		RA49/V2.00	Option PCB type A must be installed
RA5900	Connectable		RA59/V1.03	Option PCB type A must be installed
GR1700	Connectable		RL/V1.00	Option PCB type A must be installed
GR1750	Connectable		RL/V1.00	Option PCB type A must be installed
GR2710	Connectable		RL/V1.00	Option PCB type A must be installed
GR2750	Connectable	RP/V1.00	RM/V1.00	Option PCB type A must be installed
GR3750	Connectable	RP/V1.00	RM/V1.00	Option PCB type A must be installed
TR1510	Connectable		SS/V1.00	Option PCB must be installed
TR1530	Connectable		SS/V1.00	Option PCB must be installed